

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/657,312	09	/08/2003	John A. Manteiga	125896	9763
7590 04/28/2005				EXAMINER	
John S. Beulic			CASAREGOLA, LOUIS J		
Armstrong Teasdale LLP Suite 2600				ART UNIT	PAPER NUMBER
One Metropolitan Square				3746	
St. Louis, MO 63102				DATE MAILED: 04/28/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

~		E				
	Application No.	Applicant(s)				
	10/657,312	MANTEIGA ET AL.				
Office Action Summary	Examiner	Art Unit				
	Louis J. Casaregola	3746				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period was reply received by the office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	_·					
2a) ☐ This action is FINAL . 2b) ☑ This	action is non-final.					
☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.				
Disposition of Claims						
4) Claim(s) 1-20 is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	vn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-20</u> is/are rejected.	•					
7) Claim(s) 3,14-20 is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine		·				
10)☐ The drawing(s) filed on is/are: a)☐ acc	epted or b) objected to by the I	Examiner.				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct		, , ,				
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action of form P10-152.				
Priority under 35 U.S.C. § 119						
 12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents)-(d) or (f).				
2. Certified copies of the priority documents		on No				
3. Copies of the certified copies of the prior						
application from the International Bureau	•					
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
		•				
Attachment(s)	. 01					
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		Patent Application (PTO-152)				
Paper No(s)/Mail Date	6)					

Application/Control Number: 10/657,312

Art Unit: 3746

Objections To Claims

Claims 3 and 14-20 are objected to under 37 CFR § 1.75(a) for the following reasons:

In claim 3, lines 5-6, "counter-counter direction" includes a typographical error and was obviously intended to be "counter-clockwise direction".

Claim 14 and related dependent claims 15-20 recite "a combustor upstream from said compressor" (claim 14, line 3). The cited language includes a transcription error since a gas turbine's combustor must be downstream of its compressor -- see the position of combustor 16 and compressor 14 shown in Figure 1.

Claim Rejections - 35 USC § 102

Claims 1, 2, 4-8, 11-16, 19 and 20 are rejected under 35 U.S.C. § 102(b) as being anticipated by Irwin.

The present claims read on gas turbine combustor assemblies of the type disclosed by Irwin. Attention is called to Figures 4 and 5; see combustor liner 53 and the surrounding casing structure comprising scroll duct 52 and air inlet 50. Note that the air openings (unnumbered) in liner 53 direct air uniformly around the liner as specified in claims 2, 7, 8, 15 and 16. Note also that the scroll duct has a cross section at its inlet

Application/Control Number: 10/657,312 Page 3

Art Unit: 3746

end (near inlet 50) which is larger than the cross section at the duct's discharge and/or

opposite end as specified in claim 4, 5, 11, 12, 19 and 20.

With regard to claim 13, it is additionally pointed out that claimed reference to a

reduction in circumferential thermal gradient is merely a desired result. If such a result

is achieved by the claimed structure, the corresponding structure in the prior art can be

presumed to achieve the same result.

Claims 1-3, 6-10 and 13-18 are rejected under 35 U.S.C. § 102(e) as being anti-

cipated by Suenaga et al.

Suenaga discloses a further example of gas turbine combustor and scroll assem-

bly. Attention is called to Figures 2 and 3; see combustor liner 50, the surrounding cas-

ing structure comprising scroll 60 and air inlet 90, and liner inlet openings 51. Note that

the liner portion directly opposite the inlet (Fig. 3) constitutes a flow splitter that forms

clockwise and counter-clockwise flows as specified in claims 3, 10, 17 and 18. Note

also that the comment on claim 13 in the rejection over Irwin above is equally applicable

to the rejection over Suenaga.

L. J. Casaregola

571-272-4826 (M-F; 7:30-4:00)

703-872-9306 FAX

April 25, 2005

LOUIS J. CASAREGOLA
PRIMARY EXAMINER

Art Unit: 3746

If repeated attempts to reach the examiner by telephone are unsuccessful, the art unit supervisor, Cheryl Tyler, can be reached at 571-272-4834.

Information regarding the status of this application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR, and status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).